

FIG. 1

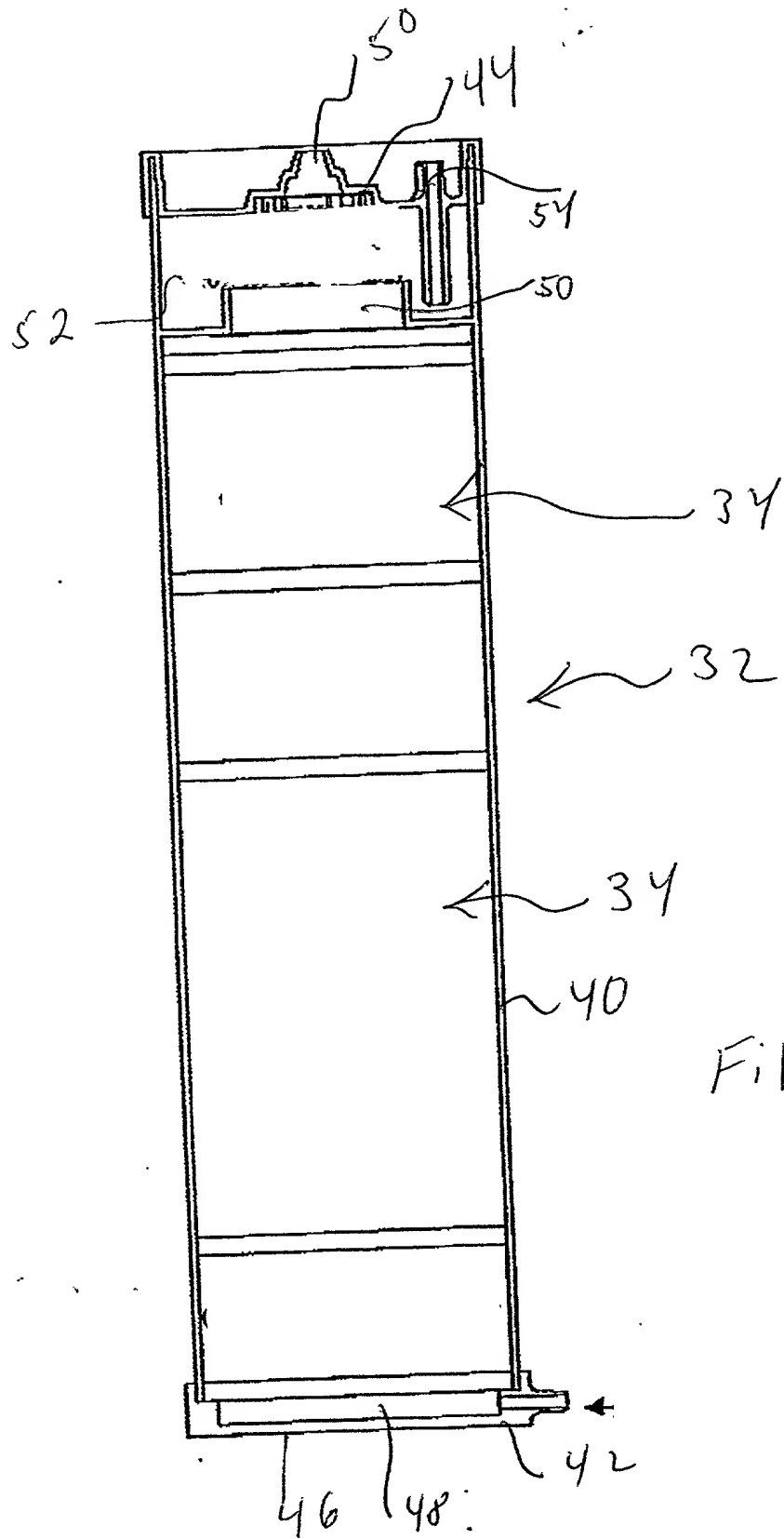
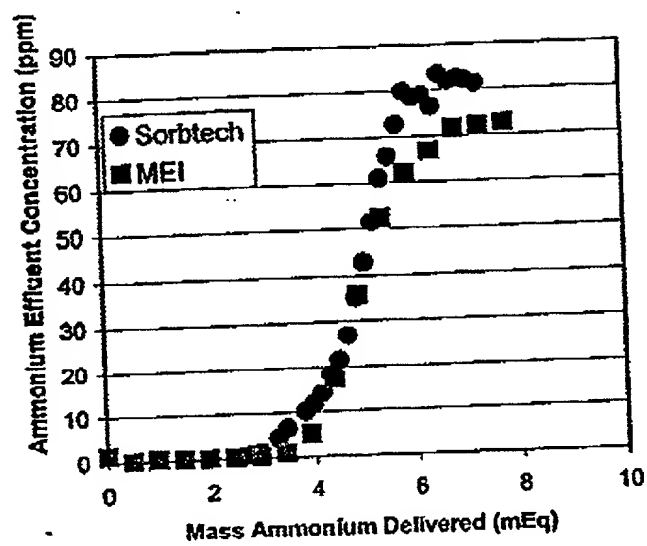
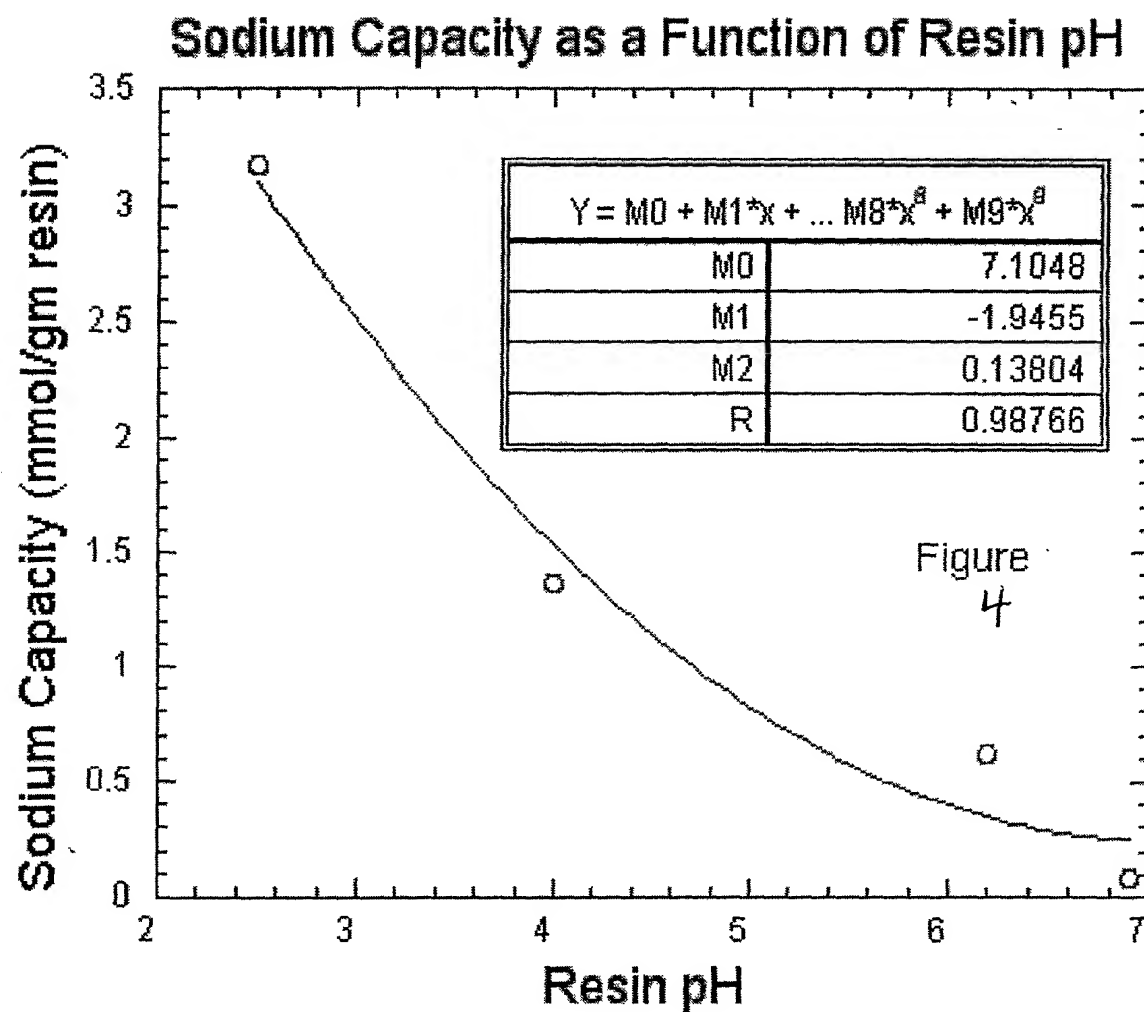


FIG 2

Fig. 2. Dynamic capacity for ZP



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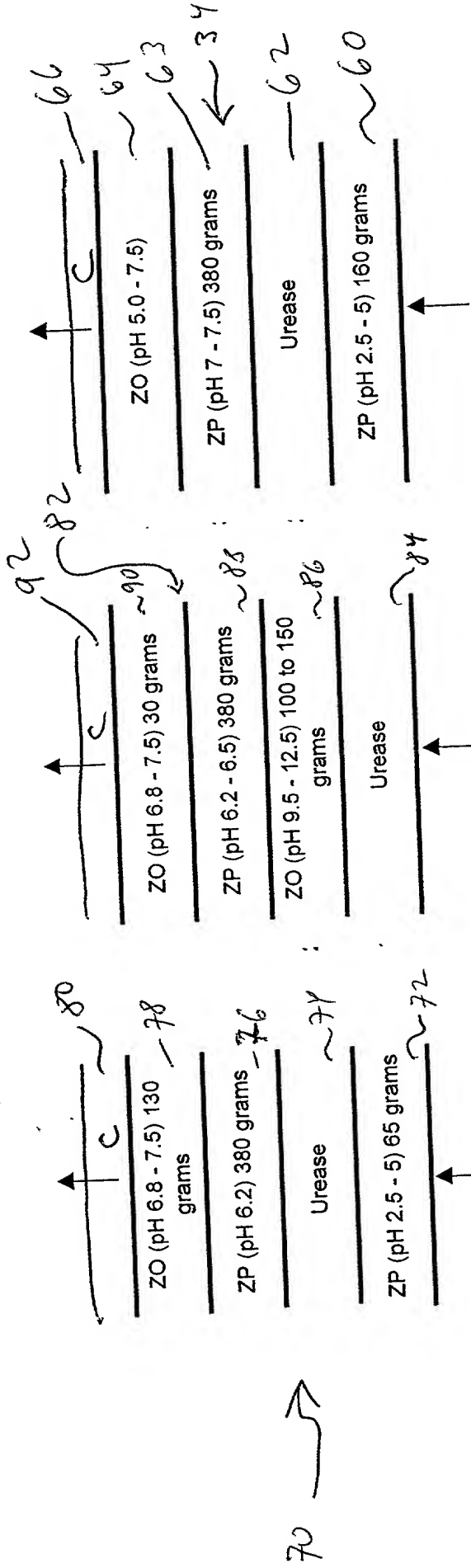
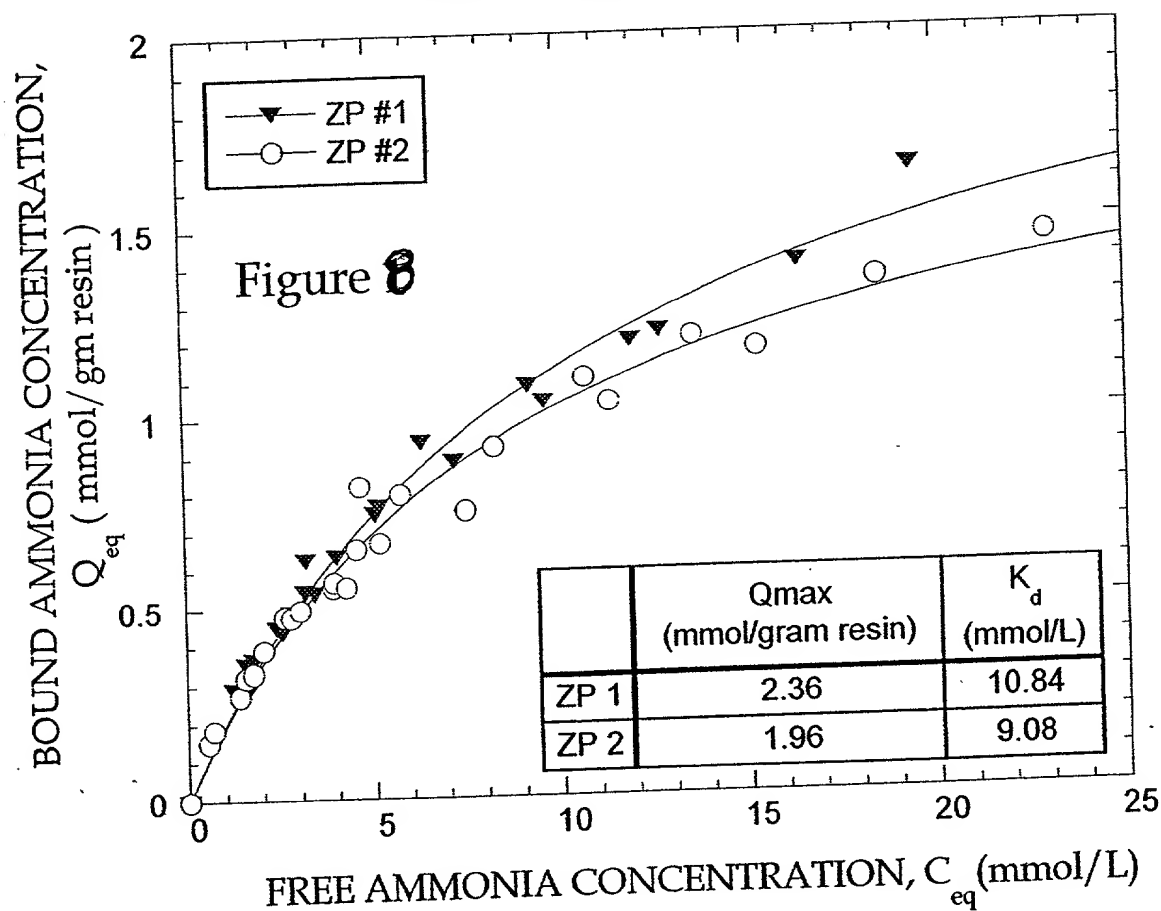


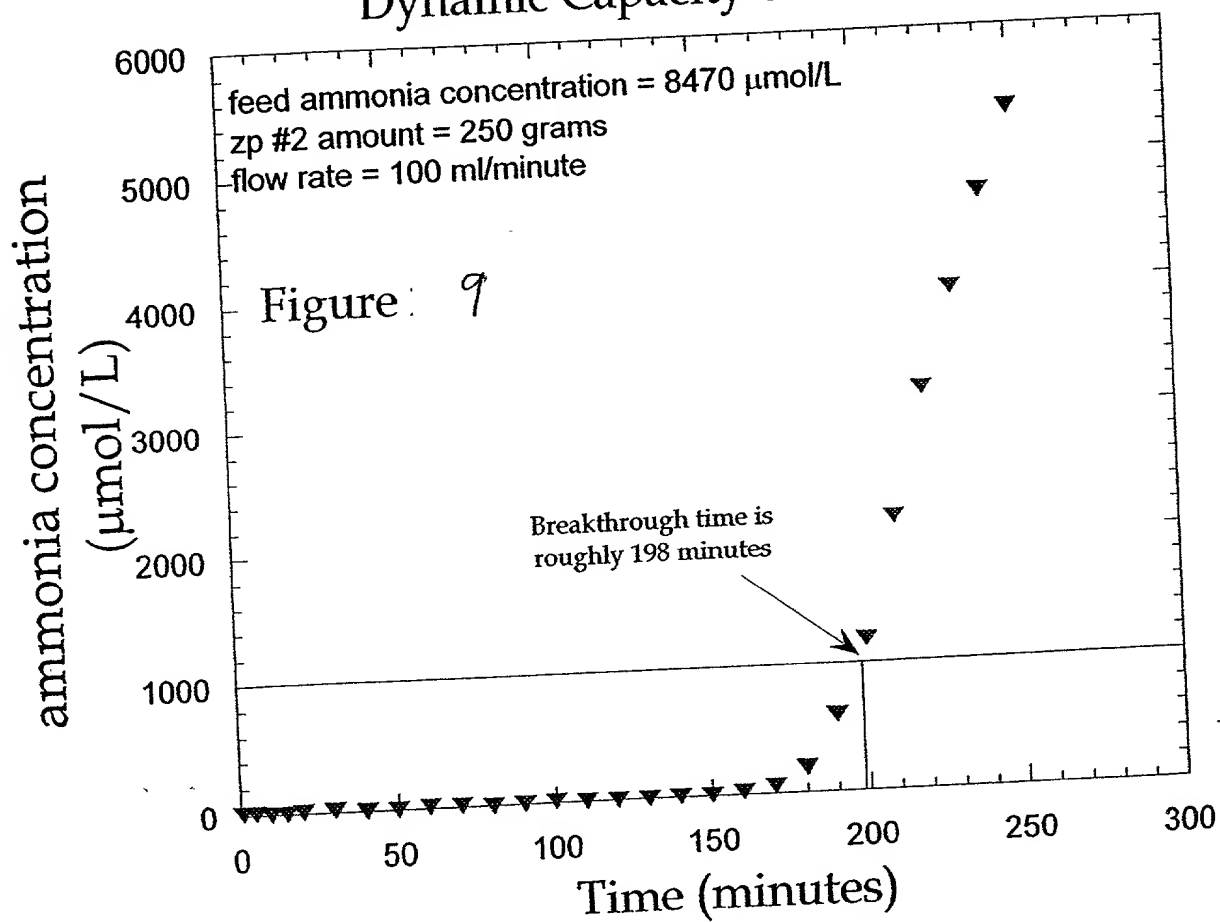
Figure 6

Figure 7

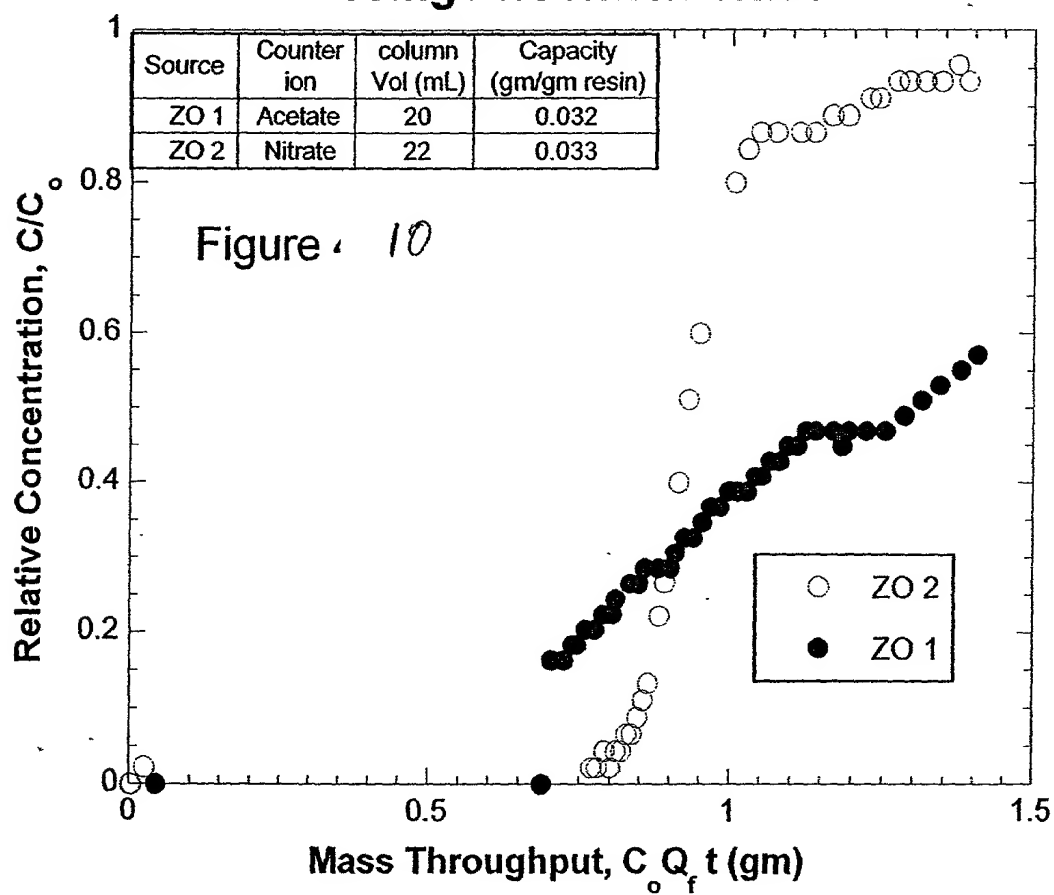
Static Adsorption Isotherm



Dynamic Capacity of the Resin



Adsorption Breakthrough Curve for Phosphate Using Zirconium Oxide



FILE 44660

↑

Carbon
Zirconium Oxide Acetate
Zirconium Phosphate
Urease
Carbon

FILE 12a

↑

Carbon (150 ml)
Zirconium Oxide (30 mL) Hydroxyl pH = 7.38
Zirconium Phosphate (400 mL) pH = 6.5
Zirconium Oxide (100 mL) Carbonate pH = 9.48
Zirconium Phosphate (200 mL) pH = 6.5
Urease

FILE 126

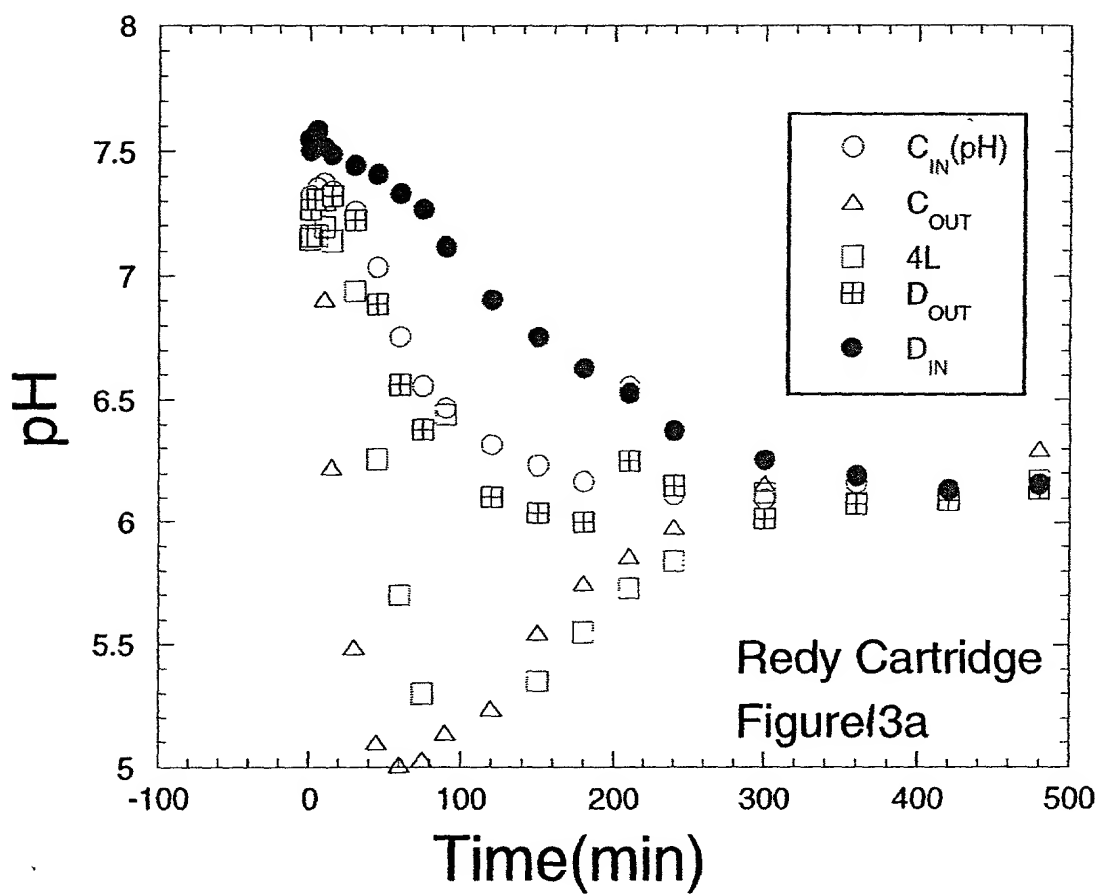
↑

Carbon (150 mL)
Zirconium Oxide (30 mL) Bicarbonate pH = 7.33
Zirconium Phosphate (450 mL) pH = 6.52
Zirconium Oxide (100 mL) Carbonate pH = 10.52
Urease

FILE 12c

↑

Urease



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